



International application No.
PCT/JP03/09415

	SIFICATION OF SUBJECT MATTER C1 ⁷ F04B49/10, H02P6/12, F25B	49/02	
According t	o International Patent Classification (IPC) or to both n	ational classification and IPC	
	S SEARCHED		
	ocumentation searched (classification system followed C1 F04B49/10, H02P6/12, F25B4		
Jits Koka	ion searched other than minimum documentation to th 190 Shinan Koho 1922–1996 i Jitsuyo Shinan Koho 1971–2003	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	o 1994–2003 o 1996–2003
Electronic d	ata base consulted during the international search (nam	ne of data base and, where practicable, sea	rch terms used)
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C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap		Relevant to claim No.
X Y A	JP 2001-333589 A (Toyota Inc 30 November, 2001 (30.11.01) Par. Nos. [0002] to [0028]; I (Family: none)	,	1-3,6-7,9, 13,18,21, 23-24,28 5-9,25-26 10-12,14-17, 20,22,27, 29-38
X Y	JP 2002-138966 A (Daikin Ind 17 May, 2002 (17.05.02), Par. Nos. [0002] to [0009] (Family: none)	lustries, Ltd.),	1,3,6, 13-14,18-19 25-26
× Further	documents are listed in the continuation of Box C.	See patent fa mily annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention connot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered novel or cannot be consider			
02 S	ectual completion of the international search eptember, 2003 (02.09.03).	Date of mailing of the international searce 16 September, 2003	th report (16.09.03)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
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INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/09415

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X Y A	JP 2002-136172 A (Daikin Industries, Ltd.), 10 May, 2002 (10.05.02), Par. Nos. [0044] to [0095]; Figs. 1 to 15 (Family: none)	1-2 5-8 34-38
X A	<pre>JP 2001-280258 A (Seiko Instruments Inc.), 10 October, 2001 (10.10.01), Par. Nos. [0039] to [0060]; Figs. 1 to 7 (Family: none)</pre>	1-2,4,6-7 34-38
X A	JP 2001-186800 A (Toyo Electric Mfg. Co., Ltd.), 06 July, 2001 (06.07.01), Par. Nos. [0011] to [0024]; Fig. 1 (Family: none)	1-2,4 6-7,34-38
Ą	EP 1220064 A2 (Seiko Instruments Inc.), 03 July, 2002 (03.07.02), Full text; Figs. 1 to 17 & US 2002/128730 A1 & JP 2002-202802 A	1-38
A .	US 2002/184899 Al (Hiroyuki ASADA, Kazuhiro TOGARU), 12 December, 2002 (12.12.02), Full text; Figs. 1 to 4 6 DE 10126524 Al & JP 2001-347828 A	10-12